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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/758,802	01/11/2001	Mario Rosario Carlone JR.	1334	935\$
27310	7590 03/12/2002			
	I-BRED INTERNA	EXAMINER		
7100 N.W. 62ND AVENUE P.O. BOX 1000			FOX, DAVID T	
JOHNSTON,	IA 50131	\	ART UNIT	PAPER NUMBER
			1638	1 1.
			DATE MAILED: 03/12/2002	4

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)
	9/158,802	Applicant(s) Corlone et al
Office Action Summary	Examiner	Group Art Unit
		( )   ( )
—The MAILING DATE of this communication appea	ars on the cover sheet L	eneath the correspondence address—
	3 -	
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET	TO EXPIRE	MONTH(S) FROM THE MAILING DATE
		er, may a reply be timely filed after SIX (6) MONTHS
<ul> <li>Extensions of time may be available under the provisions of 37 CFR from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a</li> <li>If NO period for reply is specified above, such period shall, by defau</li> <li>Failure to reply within the set or extended period for reply will, by sta</li> </ul>	reply within the statutory minis	mum of thirty (30) days will be considered timely.
Status		
☐ Responsive to communication(s) filed on		
<ul> <li>This action is FINAL.</li> <li>Since this application is in condition for allowance exce accordance with the practice under Ex parte Quayle, 19</li> </ul>	pt for formal matters, pro 935 C.D. 1 1; 453 O.G. 2	13.
Disposition of Claims  Claim(s)		is/are pending in the application.
☑ Claim(s)		is/are withdrawn from consideration.
Of the above claim(s)		is/are vidiate.
☐ Claim(s)	· · · · · · · · · · · · · · · · · · ·	is/are microted
Claim(s) 1 - 4		is/are rejected.
( Claim(a)		Is/are objected to.
☐ Claim(s)————————————————————————————————————		are subject to restriction or election requirement.
Application Papers		
☐ See the attached Notice of Draftsperson's Patent Dra	wing Review, PTO-948.	4. C. disemproyed
The proposed drawing correction, filed on	is 🗀 approve	d 🔟 disappioved.
☐ The drawing(s) filed on is/are of	ejected to by the Examine	51.
☐ The specification is objected to by the Examiner.	NP.	
☐ The oath or declaration is objected to by the Examine	<b>11.</b>	
Priority under 35 U.S.C. § 119 (a)-(d)		(a) (d)
☐ Acknowledgment is made of a claim for foreign priorit ☐ All ☐ Some* ☐ None of the CERTIFIED copie:	s of the priority document	ts have been
☐ received. ☐ received in Application No. (Series Code/Serial No.	ımber)	
☐ received in this national stage application from the	e International Buleau (i	CT Rule 1 7.2(a)).
*Certified copies not received:		•
Attachment(s)	2	DTO 412
☐ Information Disclosure Statement(s), PTO-1449, Pag	oer No(s)	☐ Interview Summary, PTO-413
Notice of Reference(s) Cited, PTO-892	☐ Notice of Informal Patent Application, PTO-15	
☐ Notice of Draftsperson's Patent Drawing Review, PT	O-948	Other

Office Action Summary

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97) Part of Paper No.

Art Unit: 1638

Applicants' intent on page 49 of the specification to deposit under all of the conditions of 37 CFR 1.801-1.809 is acknowledged.

Claims 1, 6, 21, 25, 37 and 40 are objected to for their inclusion of blanks "\_\_\_\_\_". It is assumed that the blanks will be replaced by the ATCC deposit accession number.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3, 5, 14, 16, 19, 20, 22, 24, 33, 35, 41, 43, 45, 46 and 48-49 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 3 and 22 are indefinite in their recitation of "wherein said plant is male sterile" which is confusing, since the claims from which they depend are not drawn to a male sterile plant.

Replacement of the phrase with --further comprising a genetic factor conferring male sterility--would obviate this rejection.

Claims 5 and 24 are indefinite in their recitation of "the...protoplasts" which lacks antecedent basis in the claims from which they depend. Deletion of "the" before "cells" in line 1, and insertion of --of the tissue culture-- after "protoplasts" in line 1, would obviate this rejection.

Claims 14, 33, 41, 45 and 46 are indefinite in their recitation of "good", "high", "excellent", "above average" and "adapted" which are unduly narrative and so fail to clearly

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characterize the degree of expression of the claimed trait or the claimed maize plant exhibiting the trait.

Claims 16 and 35 are indefinite in their recitation of "[t]he maize plant breeding program" since the claims from which they depend are drawn to methods rather than breeding programs.

Replacement of the phrase with "[t]he method" would obviate this rejection.

Claims 19-20 and 48-49 are indefinite in their recitation of "[t]he single gene conversion(s) of claim" since the preceding claims are drawn to maize plants rather than single gene conversions. Replacement of "conversion(s)" with --conversion--, and insertion of --maize plant-after "conversion", would obviate this rejection.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was

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commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 14, 33, 43 and 45-46 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Johnson (U.S. 5,824,849).

The claims are drawn to maize plants exhibiting two traits and which are derived from the exemplified maize inbred following an unspecified number of crosses for an unspecified number of generations with other plants of unspecified genetic complements, wherein at least one parent was the exemplified maize plant.

Johnson teaches an inbred maize plant developed in Iowa with high yield and adapted to the Central Corn Belt region of the United States (see, e.g., columns 9-10, Table 1). The plant taught by Johnson differs from the claimed plant only in the derivation from a particular maize parent. However, the method of making the maize plant would not confer a unique characteristic to the resultant plant which would distinguish it from the prior art plant, given the loss of parental genotypic contribution with each outcross. See *In re Thorpe*, 227 USPQ 964, 966 (Fed. Cir. 1985), which teaches that a product-by-process claim may be properly rejectable over prior art teaching the same product produced by a different process, if the process of making the product fails to distinguish the two products.

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Claims 1-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson (U.S. 5,824,849).

Johnson teaches an inbred Dent maize plant with yellow endosperm, dark anthocyanin in the brace roots, pink silk, green glume, and upright ear (see, e.g., Table 5, columns 16-17), wherein the plant was developed by crossing other breeding lines exhibiting desirable traits, wherein tissue culture or genetic engineering may be further employed to introduce other traits, and wherein the inbred can be used to produce other desirable hybrids (see entire patent).

Johnson does not teach a maize plant with dark green leaves.

It would have been obvious to one of ordinary skill in the art to utilize the maize plant taught by the reference and to modify that plant by breeding with other maize plants to incorporate other desirable agronomic traits, as suggested by the reference.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David T. Fox whose telephone number is (703) 308-0280. The examiner can normally be reached on Monday through Friday from 10:30AM to 7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson, can be reached on (703) 306-3218. The fax phone number for this Group is (703) 872-9306. The after final fax phone number is (703) 872-9307.

March 11, 2002

DAVID T. FOX PRIMARY EXAMINER GROUP 180

DAVID T. FOX PRIMARY EXAMINER GROUP 180

GROUP 180 (6 >8)